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PRODUCT
INFORMATION

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SurePoxy Mortar

Description

SurePoxy Mortar is a pre-measured package, with all the necessary materials needed to make a high quality epoxy based mortar. All the ingredients you need are individually packaged and waiting for your use in a 5 gal. metal pail. Just combine in the furnished mixing pail and apply according to directions for the highest quality, simplest epoxy system, you ever saw. No need to ever try and figure out mixing ratios between components A and B and the aggregate/liquid proportions. The particular epoxy system selected can be used on both dry and damp surfaces. It is insensitive to moisture before, during and after cure. Strengths far exceed concrete and it even has built-in elasticity for better thermal cycle resistance.

Uses

Use to resurface, patch, level or repair concrete surfaces. Whenever high strength, quick setting, chemical and abrasion resistant surfaces are needed. Its rapid strength gain allows SurePoxy Mortar to be used in areas that must be opened to traffic quickly. Since it will not shrink, patch can be made many inches thick in one pour.

Special Features

SurePoxy Mortar contains special ingredients to provide stress relief from thermal cycling, impact or loading. One of the most common causes of failures in epoxy systems is due to the epoxy mortar being with the substrate. SurePoxy Mortar is designed to give rather than shatter. In addition, the special aggregates help to match the expansion and contraction rate for epoxy and concrete. You get double-barreled protection, against loss of adhesion due to severe impact, loading and temperature changes.

Compliances

SS-C1302, Type II, Classes A & B
ASTM C-881, Types I & II, Grade 1, Class C
AASHTO M-235, Types I & II, Grade 1, Class C
USDA OK

Typical & Physical Properties @ 75 °F

Color	Amber	
Pot Life	45 minutes	
Compressive Strength	5,500 psi	1 day
	7,600 psi	7 days
Tensile Strength	3,300 psi	7 days
Tensile Elongation	5-10%	7 days
Bond Strength	3,800 psi	7 days
damp conc.		
Water Absorption	Less than .5%	
Modulus of Elasticity	7.5x10 ⁵ psi	28 days

Advantages

Pre-Measured & Factory Proportioned
Use on Dry or Damp Surfaces.
Use Indoors or Outdoors
Flexibilized for Greater Thermal Shock Resistance
Stronger than Concrete
Increased Chemical and Abrasion Resistance
Easy to Use-No Measuring
Non-Shrinking
Rapid strength Gain

Packaging/Yield

One unit consists of a heavy-duty metal pail, containing sufficient liquid epoxy and special aggregates to yield 20 ft² at 1/4" thick. Extra epoxy included to properly prime up to 20 ft². Total component yield .40 ft³, 693 in³, or 3 gal. Gross weight 62 lbs.

Shelf Life

Two years minimum at room temperature.

Directions

Surface Preparation

Concrete surface must be clean and sound. It may be damp or dry but must be free of standing water. Remove oil, wax, curing compound, laitance, and other foreign matter as per ASTM D-4258 and D-4259. Sandblasting and mechanical scarification are the preferred methods of properly preparing the floor. Acid etching according to ASTM D-4260 with Kaufman Products Concrete Floor Etch or 15-20% muriatic acid solution can be used as an alternative. Be sure to rinse thoroughly with clean water to remove all residues. The surface shall be uniformly roughened to a degree similar in appearance to coarse sandpaper. Aggregate may show. Steel - Sandblast to appropriate finish.

Mixing

Pour the contents of the small plastic container into the 1 gallon metal can. Stir both liquids together until uniformly mixed. Immediately after mixing, pour the combined liquid into the 5 gallon can containing aggregate. Be sure to save 1 quart of liquid as primer (black mark on gallon container is 1 quart mark). Mix aggregate and liquid epoxy together in can until uniformly blended-approximately 3 minutes with a paddle on low speed (400-600 rpm.) drill or until mortar is uniform in color and consistency

Application

Apply contents, (primer) remaining in gallon can to properly prepared substrate with brush, roller, or squeegee. Be sure to work primer into surface so that it bonds intimately. There is sufficient primer to treat 20 ft² of surface. While it is tacky, apply mortar as prepared above. Screed or rake to thickness desired. If primer has dried, apply SurePoxym before applying mortar. Compact and level with trowel. SurePoxym Mortar may be dampened with water periodically, and if necessary to aid in finishing. Trowel surface with uniform pressure.

Note

Applications less than 1/4" thick will be very weak and should not be attempted without first consulting the factory. Never apply over latex modified mortar.

Precautions

Do not thin. Exposures to temperatures above 130°F are not recommended. Beware of open flame. Do not apply mortar after primer has lost its tackiness. Clean tools with SAC before mortar hardens. See KPI topping methods. *Read Safety Data Sheet before using.* Store at 40-90°F. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.

Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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